LOGGE	D BY		BEGIN DATE	COMPLETION DATE	BORFHOLE	FIC	CA <sup>-</sup>	ΓΙΟΝ (	at/L	ona c	r Nor	rth/F:	ast an	d Datum	1)	TE	HOLE ID				
S. M		drich		BOREHOLE LOCATION (Lat/Long or North/East and Datum) N2120765.394 / E5996357.147 (NAD83)											MPTNB-R2-PZ						
DRILLI		OREHOLE LOCATION (Offset, Station, Line)												SURFACE ELEVATION							
DRILLI			and Testing, Inc.		DRILL RIG	Offset 66ft R Sta 61+77 NB Alignment												11.476 ft (NAVD88)  BOREHOLE DIAMETER			
Mud				Failing '	Failing 1500																
SAMPL	SPT HAMM	SPT HAMMER TYPE											HAMMER EFFI	CIENCY, ER	.i						
MC (	2.4"),	SPT	(1.4"), Grab, Shelby	GROUNDW	IIC,	14 D	U IDS	., 3L	)-INC	inic	rop	TEDI	DII I IN	G (D)		72.8% OTAL DEPTH	OF BORING	2			
2" dia			READINGS		-1\	DOM	5	IXILL	1140	Ai	ILIXI	JINILLIIN	O (D)	′	98 ft	OI BOILING	,				
(ft)						Ľ	Į.						Ħ	_							
NO NO	Œ					catic	ğun	e In	Foot	(%)		9	/eigh	Strength	thod						
ATI	Ŧ	lis al				le Lo	<u>ē</u>	ber.	ber:	/ery	(%)	ri e	nit V	Stre	g Me	5					
ELEVATION	DEРТН (ft)	Material Graphics			Sample Location	Sample Number	Blows per 6 In	Blows per Foot	Recovery	RQD (%)	Aoist Sonte	Dry Unit Weight (pcf)	Shear (tsf)	Drilling Method	9	Remar	ke				
	<b>-</b> ō¯	20		Description  with SAND (GP), dark broken	own, moist,	$\vdash$		ш	В	Ŀ	<u></u>	20		0) =		)	remai	NO.	$\dashv$		
	1			se, SAND is fine to coarse RAVEL is subangular, occ	e, trace casional	₩:	S1								$ \{ $						
9.48	2	,0°,	clumps of SANDY CLAY	Y, earthy odor detected. [l	FILL]										1						
9.46	<b>4</b> E					$\coprod$	20			400					N						
	3	$\square$	SANDY Lean CLAY (Clabrown, and gravish brown)	L), medium stiff, dark brow wn, moist, SAND is fine to	n, yellowish medium	<b>H</b>	S2	6 13	23	100					}						
7.48	4		Poorly graded SAND (S	SP), loose, yellowish brown	/		S3	10	5	22	ŀ	4.2	120.7								
	5		fine, with trace fines.			$\prod$	55	2	5	22					{[						
			5.0', grades wet.			Н	$\dashv$	3							K						
5.48	6																		F		
	7		Grades dark grayish bro	own		H.	S4		9	67											
3.48	8		Grades dank grayion bro			W.	34	4 5	9	01											
0.10						Щ.	S5	4	1	100	ŀ	20.4	137.8		$\mathcal{M}$	PA					
	9			ive, wet, trace of fine SAN ganic odor detected. [BAY		IXI.	33	0 1	7	100									F		
1.48	10			-	-	4		3							000000000000000000000000000000000000000						
	11																				
0.50			Grades with frequent de	ecayed vegetation.		Ш	J6		100 psi	100											
-0.52 8	12		CLAYEY SAND (SC), b	oluish gray, wet, fine. [MAF	RINE SAND]											1					
11/3	13										ľ	66.3	97.4		MMM	PI, LL					
T.GLB 11/3/08 -2.52	14					╫															
	15														M						
NO.	13														<u> </u>						
-4.52	16		brown, fine.	ith SILT (SP-SM), loose, y	ellowish										$\triangleright$				E		
ALTF	17																				
○ ≻ -6.52	18					V:	S7	9	16	67											
BRA						$\mathbb{H}$		7 9			;	23.1	128.1			PA					
UPL	19					\/ !	S8	0	4	100											
-8.52	20			dark bluish gray, wet, trace	e of fine	$\mathbb{M}$		0 4							000000000000000000000000000000000000000				F		
98.GF	21			rery loose, olive brown, mo	oist to wet,	$\prod$		-													
11-2-0			SAND is fine. [MARINE																E		
-10.52 တို့	22		wet, fine to medium, wit	th iron-oxide mottling and	veins.	$\coprod$															
JPLO	23		[COLMA SAND]			M	S9	10 23	45	100			105			D.					
군 -12.52	24		04.01.0	an with a relativity of the fi			15	22		15-		20	136.2			PA					
RIVE	25		24.0, Grades very dens	se, with pockets of weak o	ementation.	$\mathbb{N}^{s}$	310		57	100					20						
)YLEC	-20		(continued)																		
_ ь	ion	_		REPORT TITLE BORING RECORD									HOLE ID MPTNB-R2-PZ								
RMA	rvices		D	DIST. COUNTY ROUTE POSTMI								_E EA									
Geotechnical Services PROJECT C																v 3.4	16	3/01			
TRAN			Doyle Drive Replacement Project   BRIDGE NUMBER   PREPARED BY   DATE   SHEET								SHEET										
CAL						34-0163R PREPARED BY T. Carroll							DATE 11-3-08		4						

ELEVATION (ft)	(#)			ocation	in linear	r 6 In	(%)		(%)	Veight	ength	ethod	
LEVAT	DEPTH (ft)	Material Graphics	Description	Sample Location	Sample Number	Blows per 6 In	Recovery (	RQD (%)	Moisture Content (	Dry Unit Weight (pcf)	Shear Strength (tsf)	Drilling Method	Remarks
	25	≥0	Description  Poorly graded SAND (SP), medium dense, yellowish brown, wet, fine to medium, with iron-oxide mottling and veins.	X	_ 2	9 23 24	n &	~	≥0	<u> </u>	S t)		) Remarks
-14.52	26		[COLMA SAND]  Poorly graded SAND with SILT (SP-SM), medium dense, yellowish brown, fine to medium, with heavy iron-oxide	-		24)						0000	
-16.52	28		mottling, moderately cemented.	U	11	10 ps			23.1	130.1		3000	cu
	29								20.1	100.1			PĀ
-18.52	30						+						CU PA
-20.52	32											2000	
	33			S	3	32	4 100					000	
-22.52	34		Grades with slight iron-oxide staining, grades to fine SAND.	\s\s	13 2	42 20 83/ 33	11"100						
-24.52	35					0/5"							
	37		Poorly graded SAND with CLAY (SP-SC), yellowish brown, moist, fine, pockets of iron-oxide staining.									3000	
-26.52	38			U	14	15 ps						0000	
-28.52	39												
	41		Poorly graded SAND (SP), dense, dark yellowish brown, wet,									<u> </u>	
-30.52	42		fine.		45	-	2 400	_					
CALTRANS FORMAT DOVLEDRIVE_ARUPLOGS_11-2-08.GPJ ARUP LIBRARY_CALTRANS FORMAT.GLB 11/3/08 CALTRANS FORMAT.GLB 11/3/	43		CLAYEY SAND (SC), dense, yellowish brown, moist, fine. 43.5', grades with slight cementation.		3	30 43	3 100		20.6	134.3		3000	PA
ORMAT.0	45		45.0', grades with increase ines, with pockets of CLAY.	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	-	15 3 <sup>3</sup> 16 21	7   100		20.0	104.0		$\triangleright$	
SN -34.52	46		ν, σ									0000	
-36.52	47		Poorly graded SAND (SP), very dense, olive brown, moist, fine, trace fines.	s	17 2	26 90/	11"100					$\bowtie$	After sampling at 47.5', hole caved to
P LIBRAF	48			<u> </u>	2	40 0/5"		_				2000	43'
-38.52	50											3000	
1-2-08.G	51												
-40.52 SOOT	52 =			\/s		12	0 100					<u> </u>	
42.52 -42.52	54			4		28 32	+					0000	
YLEDRIN	_ <sub>55</sub>		(continued)									Ď.	
MAT DO'	Department of Transportation									MPTNB-R2-PZ			
VS FORM		7	Division of Engineering Services Geotechnical Services		4 PRO	DJECT	S.F. OR BE	RIDGE	E NA	101 ме		8.3	STMILE EA 3/9.4 163701
CALTRAI				BRII	Doyle Drive Replacement Project           BRIDGE NUMBER 34-0163R         PREPARED BY 7. Carroll         DATE 11-3-08         SHEE 2 Carroll								

ELEVATION (ft)	оертн (ft)	Material	Description	Sample Location	Sample Number	Blows per 6 In	Blows per Foot	Recovery (%)	RQD (%)	Moisture Content (%) Dry Unit Weight (pcf)	Shear Strength (tsf)	Drilling Method		Remar	KS	
-44.52	<b>-</b> 55		Poorly graded SAND (SP), very dense, olive brown, moist, fine, trace fines.													
-46.52	57 58 59		SAND grades very fine.	/s	19	24	54	100								
-48.52	60					29 25										
-50.52																
-52.52	64 65			S	20	30 50/6"	50/6"	100				IIIIIII				
-54.52	66 67		Poorly graded SAND with CLAY (SP-SC), very dense,									<u>0000000000000000000000000000000000000</u>				
-56.52	68 69		yellowish brown, moist, fine.	s	21	22 22	53	100								
-58.52	70 71		69.8' - 70.0', heavily iron-oxidized zone with fine GRAVEL // vand coarse SAND. Fat CLAY, very stiff, olive brown, moist, trace of fine SAND.			31										
-60.52 1/3/08	72 73		CLAYEY SAND (SC), very dense, dark greenish gray, fine, with lenses of dark greenish gray fat clay - moist.									DODDO				
ORMAT.GLB 11/3/08 25:759-	74 75			s	22	13 26 40	66	100				$\triangleright$				
-64.52	76 77		Lean CLAY (CL), stiff to very stiff, dark bluish gray, moist, trace SAND, SAND is very fine, with decayed vegetation,									DODDOOD				
CS.99-	78 79		with pockets of very fine SAND. [OLD BAY CLAY]	s	23	7 10	26	100		24.4	PP =	DULL	PI, LL			
-2-08.25 -68.52	80 81		<u> </u>			16					1.0, 1.0, 1.0					
-70.52 44 47	82 83		Elastic SILT (MH), stiff to very stiff, dark bluish gray, moist,	U	124		200	100								
Y -72.52	84 -85		trace very fine SAND, with decayed vegetation.	U	24		psi	100				000				
JO VLE			(continued)		RF	EPOR1	TIT	LE						HO	LE ID	$\dashv$
SMAT E	\ 		Department of Transportation  Division of Engineering Services		B DI	ORIN ST.	1G I	REC		ROU		PO	STMILE	MF EA	PTNB-R2-I	PZ
Geotechnical Services  4 S.F.  PROJECT OR BRIDG										eplacement Project						
CAL					3	4-016	33R	יוטבר	`	T. Carr	oll		[ ]	DATE 11-3-08	SHEET 3 of 4	ŀ

